VersaPro

NEC

User's Guide

VX Model
VB Model

This User's Guide has been written assuming that the user is familiar with terms used for basic Windows operation such as "folder", "file", or "window". It also assumes that the user is able to perform basic mouse operation and understands how to use help in Windows or its installed applications to resolve problems.
In this user's manual, unless separately specified, "Windows 7" refers to genuine Windows® 7 Professional 32 bit with Service Pack 1 installed.
System configuration and software installation should be conducted by a user who has administrator privileges. If a [User Account Control] screen comes up, please be sure to confirm the contents before continuing.

The information contained within this manual applies to the following models:

- VX Model: VC25M/X-D, VG25M/X-D
- VB Model: VC17H/BB-D, VG17H/BB-D

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Note: The illustrations, screenshots, icons, and on-screen text shown in this document may differ from the ones you actually encounter.

1 Checking Included Accessories

Checking that all included accessories are present

Please open up the box and check that all included items and accessories are there. Please immediately contact the place of purchase if any items happen to be missing or damaged.

1. Check contents of the box.

- ☐ 保修书 *1
- ☐ 安全使用说明 *1
- ☐ Instructions For Safe Use *2
- ☐ NEC软件的使用条件【即EULA】(对顾客的特别提示)
  (请务必先仔细阅读如下内容后, 决定是否打开本个人电脑的包装) *1
- ☐ Terms and Conditions for using software (For Customer)
  (Please read this before opening the package) *2

☐ Base unit	☐ Power cord
☐ AC adapter	☐ Battery pack
☐ Application Disc	☐ Recovery Disc
☐ User's Guide	

*1 : VC25M/X-D, VC17H/BB-D
*2 : VG25M/X-D, VG17H/BB-D

2. Confirm that the model number and serial number on the base unit matches the model number and serial number written on the warranty.

If they happen to differ, please contact the place of purchase immediately. Please also keep your written warranty in a safe place for future reference. If your encounter a breakdown during the warranty period, we shall provide repairs based on the conditions specified in the warranty. For repairs after the warranty period has expired, please consult the place of purchase or one of our specified customer service locations. If it is deemed possible to regain functionality, we are able to perform paid repairs at the customer's request.

2 Connecting Included Accessories

Important points when connecting

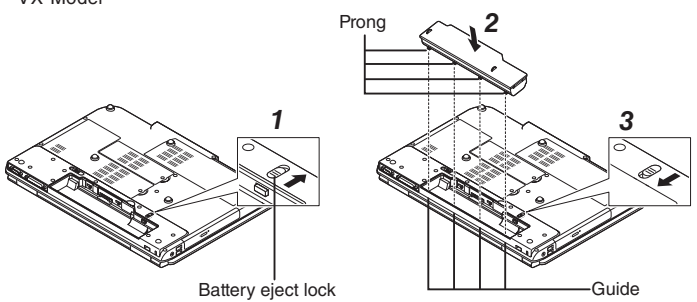
- **Do not touch connector terminals when connecting any items.**
  Failure to do so may cause damage.
- **Confirm that the wireless LAN is turned off.**
  In the default factory settings, the wireless LAN is turned off.
- **Connect the LAN cable or turn on the wireless LAN, only after completing Windows setup and firewall configuration.**
  This ensures that your computer can be safely connected to a network.

Connecting power sources

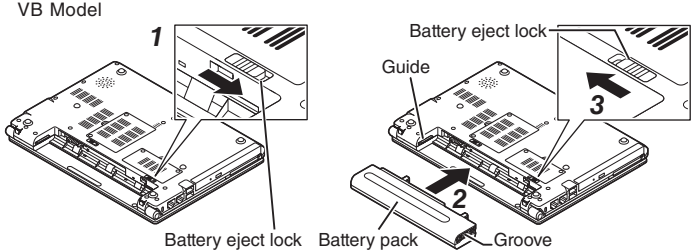
1. Install the battery pack.

Please install the battery pack according to the following illustration.

VX Model

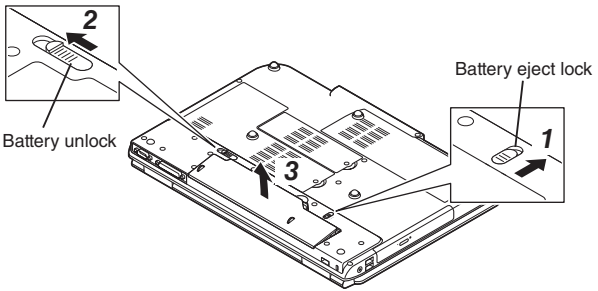


VB Model

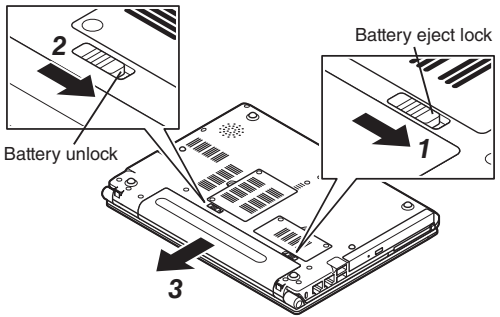


Note Battery pack removal

VX Model



VB Model



2. Connect the AC adapter.

Check

- After purchase, be sure to fully charge the battery before use.
- Do not remove the AC adapter before Windows setup has completed.

1 **Insert the AC adapter into the power input jack (⎓).**

2 **Connect the power cord to the AC adapter.**

3 **Insert the other end of the power cord into a wall outlet.**

When the AC adapter is connected, the battery will start to recharge and the battery recharge indicator (▭) will turn orange.
Once the battery is fully charged, the battery recharge indicator (▭) will turn off.

Depending on battery charging conditions, there are some cases where the battery recharge indicator (▭) does not illuminate. This happens when the battery has been charged to at least 95% capacity.

3 Windows Setup

When you first power up your new computer, it is necessary to perform Windows setup.

Check

Never turn off the power during Windows setup. Turning off the power switch or pulling out the power cord in the middle of this process may lead to damage. If there is some sort of problem or you accidentally press the power switch, please see "If you encounter problems during setup" on p.5.

Important points during setup

- **Always follow the procedure written in the manual.**
  Setup may not be able to be successfully completed if you omit any steps, press any keys other than the ones indicated on the screen, or operate any switches.
- **Do not connect any external peripherals.**
  Never connect any peripherals (printers, memory, etc.) other than the items outlined in "2 Connecting Included Accessories". Please connect or install such peripherals after "3 Windows Setup" had been completed.
- **Do not connect a LAN cable and make sure that the wireless LAN is turned off.**
  To ensure safe network connection, only connect a LAN cable or turn on the wireless LAN after Windows setup and firewall configuration has been completed.
  Be sure to also confirm that the wireless LAN is turned off. (In the default factory settings, the wireless LAN is turned off.)
- **Do not leave the computer alone during setup.**
  Do not leave the computer unattended until Windows setup has completed including passing all the screens which require your key operations, and power OFF.

Preparation for setup

During Windows setup, you are required to enter the name of the person who will be using the computer (user name), as well as the computer name. Please choose these names in advance.

Check

If two-byte characters, environment-dependent characters, or certain symbols are used for any part of the user name or computer name, Windows setup may not be completed, or some applications may not run correctly.
Therefore, it is important that the user name and computer name only includes single-byte alphanumeric characters and does not contain any symbols or spaces. The length is also limited to 20 characters.

Turning on the power

1 **Open the computer lid.**

Check

Please securely support the keyboard side when opening and closing the LCD display. In order to prevent excess force from being directly applied to the LCD screen, please handle the screen around the border area.

2 **Press the power switch (⏻).**

Setup Procedure

Start Windows 7 setup.

Check

- You may have to wait for some time for the [Windows 7 Professional] screen to come up.
- During setup, some parts of the screen may turn black. However, this does not necessarily mean that there is a problem.
- Please contact your system administrator for appropriate settings during steps 1 to 3, 6, and 7.

1 **Once the [Windows 7 Professional] screen comes up, please select your preferences for the [Country or region], [Time and currency], and [Keyboard layout] and click [Next] to continue.**

2 **Enter your user name and computer name when prompted and click [Next] to continue.**

Check

Setup cannot progress to the next step unless you enter a valid user name and computer name.

3 **Enter a user account password when prompted and click [Next] to continue.**

4 **Please check the contents when the [Please read the license terms] page is displayed.**

5 **After checking the contents, check [I accept the license terms] and click [Next] to continue.**

Check!

If you do not accept the license terms, setup cannot continue.

6 **When the [Help protect your computer and improve Windows automatically] page is displayed, please select either [Use recommended settings], [Install important updates only], or [Ask me later].**

7 **When the [Review your time and date settings] page is displayed, please select your time zone date, and time, and click [Next] to continue.**
The screen should change several times during this process, and it may take some time before the desktop is displayed.

8 **When a dialog box comes up asking you to shut down, click [OK].**

9 **Click [Start].**

10 **Click [Shutdown].**
The computer power will then turn off.

Check!

After Windows setup has completed, Windows Experience Index measurements are performed once your computer continues to be in an idle state for around 15 minutes. While these measurements are in progress, the power plan will change to "High performance". At this time, you may notice the power to the display cutting out.

If you encounter problems during setup

The setup screen is not displayed.

When [Press <F2> to Enter BIOS Setup] is displayed on the screen when you turn the power on, please carry out the following procedure.

1 **Press the <F2> key.**
The BIOS setup utility will then be displayed.

2 **Use the number keys to enter the current hour (24 hour time format) and then press <Enter>.**

3 **Use the <Tab>, <↑>, and <↓> keys to move to desired position and in the same manner, set the rest of the time and date in the order of minutes, seconds, month, day, and year.**

4 **Press the <F9> key.**
The setup confirmation screen should come up.

5 **Select [Yes] and then press <Enter>.**
The BIOS setup utility will then be displayed.

6 **Press the <F10> key.**
The setup confirmation screen should come up.

7 **Select [Yes] and then press <Enter>.**
The BIOS setup utility should now be finished and Windows will automatically restart.

After this, please see "Setup Procedure" on p.4 and continue on with the process.

If you accidentally turn off the power during setup

The setup process will not be successfully completed and Windows system files or the registry may be corrupted.
In this case, either perform Windows recovery or consult your place of purchase.

The computer is unresponsive or shows an error message during setup.

Make a note of the error message and hold down the power switch for at least four seconds to perform a forced shutdown.
Please wait for at least five seconds before turning the power switch back on. After that, please see the above "If you accidentally turn off the power during setup".

Using and configuring your computer after setup is complete

Creating multiple hard disk partitions

As a default setting, the first internal hard disk has only one useable partition (volume), designated as the C: drive.
However, it is possible to divide the C: drive into multiple partitions.
Please refer to the following steps if you would like to change the factory default settings and reduce the size of the C: drive in order to create a new partition from the resulting unassigned space.

1 **Open [Control Panel].**

2 **Click [System and Security] and then [Administrative Tools].**

3 **Double click [Computer Management].**

4 **On the tree displayed on the left side of the window, click [Storage] → [Disk Management].**

5 **Select the volume marked as (C:) and right click it.**

6 **Click [Shrink Volume].**

7 **Enter the desired size into the [Enter the amount of space to shrink in MB:] box.**
The size entered here will become the maximum size of the newly created partition.

8 **Click [Shrink].**

9 **After shrinking is complete, select the unassigned space that has been reserved, and right click it.**

10 **Click [New Simple Volume].**

11 **Click [Next].**

12 **Enter the desired volume size into the [Simple volume size in MB:] box and click [Next].**

13 **Confirm that [Assign the following drive letter:] is selected and click [Next].**

14 **Confirm that [Format this volume with the following settings:] is selected and click [Next].**

15 **Click [Finish].**

Check

- Do not select [Mark Partition as Active] for the newly created partition. Marking this partition as active will cause the computer to use that partition for the boot loader, marking it as the partition to boot the operating system from.
- It is not possible to shrink a "Recovery Partition".

Note

- It is possible to change the drive letter if necessary.
- Depending on the system environment, there may be some cases where "Shrink Volume" is not possible. For more information about shrinking a volume, please refer to "Shrinking a Basic Volume" in the "Computer Management" help file.

Reference Disk management usage instructions → "Disk Management" help.

Creating a system repair disc

We recommend creating a system repair disc for times when problems such as corrupted files cause Windows to not load correctly, even after running in safe mode or the last known good configuration.
For more information about creating and using a system repair disc, please refer to Windows help.

Windows® Update and Microsoft® Update

The latest and import security update information is available through Windows® Update or Microsoft® Update. Please run Windows® Update or Microsoft® Update regularly to ensure you always have the latest version of Windows installed.

Check

Your computer has been delivered to with the all current updates already installed. Please do not attempt to uninstall these updates as it may cause issues that have already been resolved to reappear.

Windows Service Pack

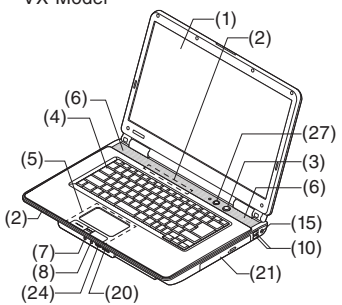
The version of Windows 7 installed on your computer is "Windows® 7 Service Pack 1 (SP1)" (Hereby referred to as "Windows 7 SP1").
It is not possible to uninstall Windows 7 SP1.

4 Knowing the Parts

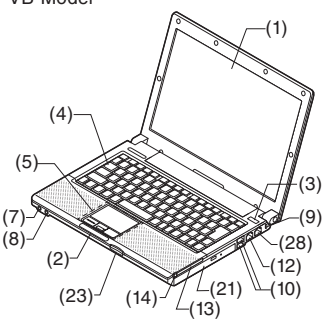
Names and descriptions of your computer's major components

◆ **The front and right sides.**

VX Model

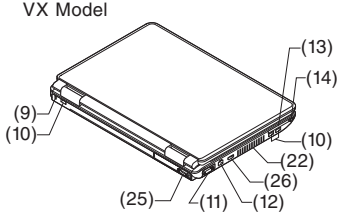


VB Model

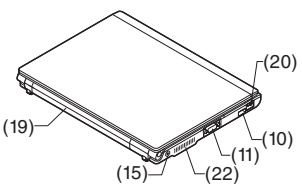


◆ **The back and left sides.**

VX Model

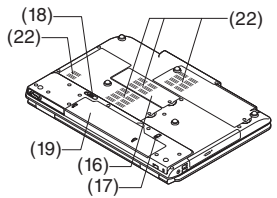


VB Model

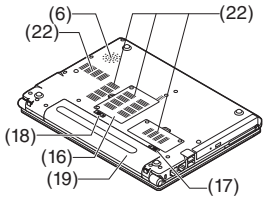


◆ **The bottom.**

VX Model



VB Model



◆ **Explanation of Components**

Number	Name	Explanation
(1)	LCD display	This is the computer's display.
(2)	Status LEDs	These indicate various states of the computer.
(3)	Power switch (⏻)	This is used to turn the computer on/off or change the power state.
(4)	Keyboard	Used to input characters and to control programs.
(5)	The NX Pad	Used for moving the mouse cursor and clicking objects in Windows.
(6)	Speaker	Built-in stereo speakers.
(7)	Microphone input jack (🎤)	A regular microphone can be connected to provide audio input.
(8)	Line out/Headphone shared output jack (🎧)	Provides audio output when regular headphones or an audio system is connected.
(9)	Security lock (🔒)	A security cable (sold separately) can be attached to this slot.
(10)	USB port (⇄)	This port can be used to connect to USB devices. It supports both USB 2.0 and USB 1.1. In order to take advantage of USB 2.0 transfer speeds, it is necessary to be connected to a USB 2.0 enabled device.
(11)	External display output (🖵)	This is used to allow viewing on externally connected displays or projectors.
(12)	LAN port (🖧)	This is used to connect to a LAN (Local Area Network)
(13)	PC card slot	This slot accepts all common PC cards.
(14)	PC card eject button	Used to remove PC cards from the slot.

Number	Name	Explanation
(15)	DC power input (⎓)	Used to connect to the supplied AC adapter.
(16)	Memory slot	This slot is used when installing an expanded RAM board.
(17)	Battery eject lock	This locks the battery pack in place to prevent it from falling out. It must be unlocked in order to remove the battery.
(18)	Battery unlock	This is used when you want to remove the battery pack. Please use it after releasing the battery eject lock.
(19)	Battery pack	This rechargeable battery is used when there is no access to an AC external power supply.
(20)	Wireless switch (📶)	This switch turns wireless LAN functionality on and off.
(21)	Optical drive	This is the internal DVD Super Multi drive. (Only available for the VB model as an optional extra) It can read DVD data and is able to write to multiple disc formats such as DVD-R and CD-R.
(22)	Air vent	These holes are designed to allow internal heat to escape. Avoid covering them with materials such as hands or clothes.
(23)	SD memory card slot (VB model)	This slot accepts SD, SDHC, and SDXC memory cards.
(24)	Volume control knob (🔊) (VX model)	This is used to control the volume of the audio output from the internal speaker or the line out/ headphone shared output (🎧). Rotate it to the right to raise the volume, and rotate it to the left to lower it. Pushing this knob can also toggle the sound on and off.
(25)	Serial port (▣) (VX model)	This is used to connect to devices that have a serial port.
(26)	HDMI port (VX model)	This is used to connect to HDMI compatible wide-screen televisions or external displays that are equipped with a HDMI port.
(27)	ECO button (VX model)	This button is used to toggle ECO mode on and off. The color of the ECO button LED also indicates which one of three settings is currently chosen.
(28)	Fax/Modem port (VB model)	A telephone line can be connected for data transmission, etc.

Status LEDs

◆ Power LED

LED state		Computer State
White (VX model)	On	Computer power on
Blue (VB model)	Flashing	Sleep
Orange	On	Low battery
	Flashing*1	Low battery during sleep
	Quickly flashing*2	Extremely low battery
Off		Computer power off, or hibernating

*1: Flashes around once every three seconds.
*2: Flashes around once every two seconds.

◆ Battery recharge LED

LED state		Computer State
Orange	On	Battery recharging
	Flashing	Battery error*1
Off		The AC adapter is unplugged, or the battery is fully charged

*1: Battery recharging error, battery life or deterioration error.

◆ Drive activity LED

LED state	Computer State
On (Green)	The hard disk or optical drive is currently accessing data.
Off	The hard disk or optical drive is not currently accessing data.

◆ Caps Lock indicator LED

LED state	Computer State
On (Green)	<Caps Lock> is on (All text input is in capital letters)
Off	<Caps Lock> is off (All text input is lowercase letters)

◆ Scroll Lock indicator LED

LED state	Computer State
On (Green)	<Scr Lock> is on
Off	<Scr Lock> is off

◆ Num Lock indicator LED

LED state	Computer State
On (Green)	<Num Lock> is on (Part of the keyboard can be used as a numeric keypad)
Off	<Num Lock> is off

◆ Wireless LAN indicator LED (VX model only)

LED state	Computer State
On (Green)	Wireless LAN can be used
Off	Wireless LAN cannot be used

◆ SD memory card slot access LED (VB model only)

LED state	Computer State
On (Green)	The card in the SD memory card slot is currently being accessed
Off	Not currently being accessed

5 Keyboard

Using the keys

Hotkeys (Using the function keys)

By pressing the function key <Fn> in combination with another key, you can easily change common computer settings. These functions are called "Hotkeys".

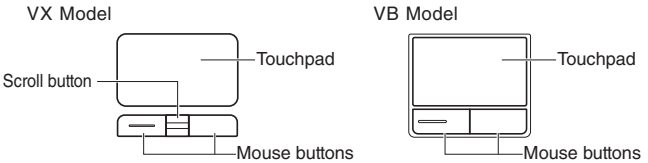
Key Sequence		Function
VX Model	VB Model	
–	<Fn> + <F1>	Turns the sound on and off (mute)
<Fn> + <F6>*1		Controls the beep sound
<Fn> + <F8>*2	<Fn> + <F7>	Decreases the screen brightness
<Fn> + <F9>*2	<Fn> + <F8>	Increases the screen brightness
–	<Fn> + <F9>	Decreases the volume
–	<Fn> + <F10>	Increases the volume
<Fn> + <F12>	–	Scroll lock
–	<Fn> + <Scr Lock>	Num lock
<Fn> + <Pause>		Break
<Fn> + <Prt Scr>		System request
–	<Fn> + <↑>	Page up
–	<Fn> + <↓>	Page down
–	<Fn> + <←>	Home
–	<Fn> + <→>	End

*1: This setting is cancelled when the computer is turned off or restarted.
*2: Automatic screen brightness adjustment is turned off when this is used.

6 The NX Pad

This section covers the NX pad usage and extended feature settings, as well as the driver update process.

Names and roles of the main components



The role of each part can be shown as follows.

Name	Role
Touchpad	Moving your finger over this pad allows you to control the mouse pointer.
Mouse buttons	There are both left and right mouse buttons. The left button is used as the primary button for clicking. The right button can bring up the context menu related to the mouse pointer's location.
Scroll button (VX model)	When the content to be displayed is too large to fit into a single window, press the scroll button to scroll up or down in order to see information that is out of view.

Scroll/zoom using the touchpad

The touchpad can be used to scroll in the left/right and up/down directions, or zoom in and out.

Check

This cannot be used for applications that do not support scroll or zoom.

◆ **Using the touchpad to scroll.**

Click on a window that is showing the scroll bar and run your finger along the far right or bottom edge of the touchpad. This should allow you to scroll the window in the left/right and up/down directions.
During scrolling, you can also scroll by moving your finger in a circular motion on the pad (circle scroll).

◆ **Using the touchpad to zoom in and out.**

Click on the window that you would like to zoom in or out and run your finger along the far left edge of the touchpad. This should allow you to zoom in and out.

Check

In the default factory settings, the touchpad zoom function is turned off.

NX pad settings

Configuration of the NX pad buttons, pointer behavior, and extended features is done using the [Mouse Properties] window.

1. **Click [Start] and then [Control Panel].**
2. **Click [Hardware and Sound].**
3. **Click [Mouse] under [Devices and Printers].**

   The [Mouse Properties] window should come up.

   Click on each tab in the [Mouse Properties] window to change the NX pad settings.

7 LAN Function

This section covers important points and the correct procedure for setting up the LAN (Local Area Network) function.

LAN settings

The following provides a simple explanation about how to perform network setup in order to connect to a LAN.

Setting up a network connection

Network connection settings can be changed by going to the [Control Panel] and clicking [Network and Internet] → [View network status and tasks] → [Change adapter settings].
For more detailed information, please refer to Windows help.

The following step allows you to change settings such as the computer name.

Setting the computer name and network to connect to

Selecting the name of your computer to be displayed on the network, and changing other connected network settings can be done by going to the Control Panel and clicking on [System and Security] → [System], and then selecting [Change settings] under [Computer name, domain, and workgroup settings].
For more detailed information, please refer to Windows help.

This is all you need to do to correctly setup your LAN.

Remote power on (WoL - Wake on LAN)

Remote Power On (WoL - Wake on LAN) can allow you to do the following.

- Remotely turn your computer on after the power is off.
- Remotely wake up your computer after sleep or hibernate.

If you configure your computer to allow Remote Power On (WoL - Wake on LAN), the LAN adapter stays active, even when the computer power is off.
A special packet (Magic Packet) that instructs your computer to turn on can be transmitted from a remote administrator's PC. When this packet is received by the computer's dedicated controller, it triggers the power to be turned on.
This allows you to be able to remotely turn your computer's power on or wake it up from sleep or hibernate from an administrator's PC when your computer has a LAN connection.

Check

- In order to enable Remote Power On (WoL - Wake on LAN), it is necessary to install special software on the administrator's PC to allow sending of Magic Packets.
- It is not possible to use Remote Power On (WoL - Wake on LAN) in cases where the previous system shutdown (power off, sleep, or hibernate) was not correctly completed. If this is the case, please turn the power back on, restart Windows, and once again perform a system shutdown using the correct procedure.
- Remote Power On (WoL - Wake on LAN) cannot be used with a hub that only supports a speed of 1000 Mbps. Please use a hub that supports 10M/100M/1000M Auto-negotiation.
- When using Remote Power On (WoL - Wake on LAN), please ensure that the AC adapter is plugged into your computer when in hibernation or turned off.

How to configure your computer to allow Remote power on (WoL - Wake on LAN) from when the power is turned off

The following steps can be used to configure your computer to allow Remote Power On (WoL - Wake on LAN) from when the power is turned off.

1. **Turn your computer on and press <F2> several times as soon as the NEC logo appears.**
   The BIOS setup utility will then be displayed.
2. **In the [Advanced] menu, set [Remote Power On] to [Enabled].**
3. **Press the <F10> key.**
4. **Confirm that [Yes] is selected and then press <Enter>.**
   These setting values are saved, the BIOS setup utility will finish, and your computer will restart.

Configuration is now complete.

How to configure your computer to allow Remote power on (WoL - Wake on LAN) from sleep or hibernate mode

These settings can be found in [Device Manager] → [Network adapters].
For more detailed information, please refer to Windows help.

Network booting function (PXE)

This enables booting via a network, and remote connection to your computer from an administrator's PC which allows you to do the following.

- Operating system installation
- BIOS flashing (Rewriting the BIOS ROM)
- BIOS configuration changes

To enable network booting, when your computer starts up, press <F12> several times as soon as the NEC logo appears.

Check

- In order to use network booting, it is necessary to first enable it within the BIOS setup utility, and install separate management software to allow support for PXE.
- There are some cases where network booting cannot be enabled after pressing the <F12> key. If this is the case, please try to vary the timing when pressing the <F12> key.

Configuring the BIOS setup utility to enable network booting.

1. **Turn your computer on and press <F2> several times as soon as the NEC logo appears.**
   The BIOS setup utility will then be displayed.
2. **In the [Advanced] menu, set [Network Boot Agent] to [Enabled].**

This is all you need to do to correctly setup network booting.

8 Wireless LAN Function

Turning the wireless LAN on/off

The following methods can be used to turn the wireless LAN on and off.
- Turning the wireless LAN on and off with the wireless switch
- Turning the wireless LAN on and off through "Wireless Network Connection"

Check

Your wireless LAN on/off setting is saved, even after the computer power has been turned off.

Turning the wireless LAN on and off with the wireless switch

Operate your computer's wireless switch to turn the wireless LAN on and off.

Turning the wireless LAN on and off through "Wireless Network Connection"

The wireless LAN can be turned on and off by going to the [Control Panel], clicking [Network and Internet], and selecting [Change adapter settings] under [Network and Sharing Center].
For more detailed information, please refer to Windows help.

Configuring and connecting the wireless LAN

Check

The wireless LAN functionality can be configured with the [Power Management] tab in Driver properties.

Configuring the wireless LAN

The following explanation is for connecting to a wireless LAN access point that broadcasts its network name (SSID).
For information about other connection methods, please refer to Windows help.

1. **Confirm that your computer's wireless LAN function is turned on.**
2. **Go to the [Control Panel] and click [Network and Internet] → [Network and Sharing Center].**
   Click [Connect to a network] under [Change your networking settings].
   A list of network names (SSID) should come up.
3. **Click on the network name (SSID) of the wireless network that you would like to connect to.**
4. **Click [Connect] after confirming that the [Connect automatically] checkbox is selected.**
5. **If a window comes up asking for a security key, enter the security key of the network you are connecting to and click [OK] to continue.**

Configuration is now complete.

Important points when using PROSet/Wireless

- Please use a user name consisting of single-byte alphanumeric characters.
- Please change the [Region and Language] to [English (United States)] in order to install, uninstall, or configure PROSet/Wireless.
  Once installation, uninstallation, or configuration has been completed, you may freely revert to your original settings.

Check

To check or change your [Region and Language] settings, please do the following.

1. In the [Control Panel] and click [Clock, Language, and Region] and then [Region and Language].
   If the format is set to anything other than [English (United States)], select [English (United States)], click [Apply] and continue to step 2.
2. Click on the [Administrative] tab.
   If the [Current language for non-Unicode programs] is set to [English (United States)], click [OK] to close the window.
   This completes the procedure for checking or changing the [Region and Language] settings.
3. Click [Change system locale], and under [Current system locale] select [English (United States)], and then click [OK].
4. Restart Windows.

This completes the procedure for checking or changing the [Region and Language] settings.

Installing PROSet/Wireless

By using PROSet/Wireless with your computer's wireless LAN, it is possible to use authentication functions (LEAP, etc.) that do not have native Windows support.

Check

If you would like to use extended features aimed at network administrators, please refer to ReadMe.txt (C:\DRV\WLINSEV\UTILITY\APPS\ReadMe.txt).

PROSet/Wireless can be installed with the following steps.

1. **Close any other open applications.**
2. **Click [Start] and then [All Programs] → [Accessories] → [Run].**
3. **In the [Open] box, enter "C:\DRV\WLINSEV\UTILITY\APPS\Setup.exe /qn /forcerestart" and click [OK].**

Check

- Please note that nothing will be displayed on the screen during installation.
- Windows will automatically restart once installation is complete.

This is all you need to do to correctly install PROSet/Wireless.

For more detailed information about PROSet/Wireless, please use the following steps to view the help information.

◆ **Display help information**

1. **Click [Start] and then [All Programs] → [Intel PROSet Wireless] → [WiFi Advanced Statistics].**
2. **Click [Advanced Statistics Help] in the [Help] menu.**

Check

Please see the following steps if you would like to enable wireless management for Cisco infrastructure.

1. Go to the [Control Panel] and click [Network and Internet] → [Network and Sharing Center].
2. Click [Manage wireless networks] and double click on the profile you would like to change.
3. Check the [Enable Intel connection settings] checkbox in the [Connection] tab and then click [Configure].
4. Click [Cisco Options] and check the [Enable Radio Measurement] checkbox. Click [OK] to continue.
5. Click [OK].

Uninstalling PROSet/Wireless

PROSet/Wireless can be uninstalled with the following steps.

1. **Close any other open applications.**
2. **Go to the [Control Panel] and click [Programs] → [Uninstall a program].**
3. **Click [Intel(R) PROSet/Wireless WiFi Software].**
4. **Click [Change].**

Check

Click [Next] if the [Intel(R) PROSet/Wireless WiFi Software] window comes up.

5. **Select [Remove] and click [Next].**
6. **Select [Remove] and click [Next].**
   The uninstall process should now begin.
7. **Restart Windows once the program has been successfully uninstalled.**

This is all you need to do to correctly uninstall PROSet/Wireless.

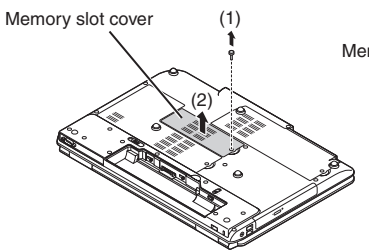
9 Memory

Installing memory

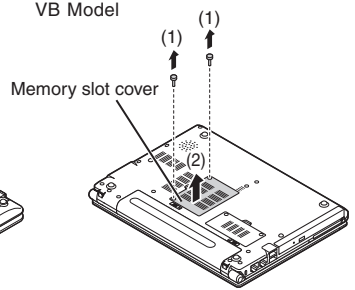
1 **Remove the battery pack.**

2 **Use a Phillips screwdriver to remove the screws shown in the diagram below. The memory slot cover should then come off.**

VX Model

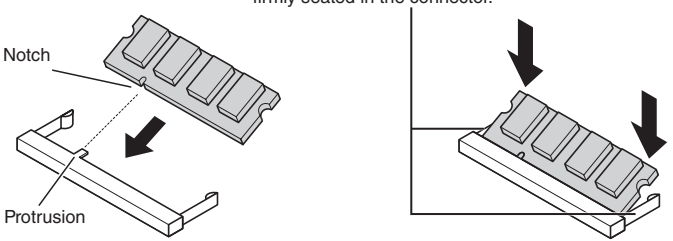


VB Model



3 **Line up the notch on the memory with the protrusion and insert the pins all the way in. Push the memory down into the slot until you hear an audible click.**

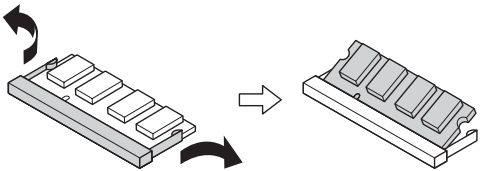
When inserting memory, this part opens left and right, to secure the memory return to the original position. Confirm that both sides lock and that the memory is firmly seated in the connector.



4 **Return the memory slot cover to its original position and reinsert the screws into the bottom of the unit.**

Your new memory should now be ready to use.

Note Please refer to the following diagram when removing memory.



10 System Configuration

The BIOS setup utility

Check

Do not turn your computer off with the power switch while in the BIOS setup utility. When turning the power off after configuration is complete, be sure to either exit the BIOS setup utility and shutdown your computer from the Windows menu after Windows has loaded, or turn the power off after selecting [Save Changes and Power Off] from the [Exit] menu when you wish to save the new settings.

Entering the BIOS setup utility

1 **Turn your computer on and press <F2> several times as soon as the NEC logo appears.**

The BIOS setup utility will then be displayed.

Check

If you have trouble entering the BIOS setup utility, please try to vary the timing when pressing the <F2> key.

BIOS setup utility basic operation

The BIOS setup utility is configured and controlled with the keyboard. The following is a list of the main keys used.

Key	Function/Operation
<←> <→>	Used to select menu bars such as [Main], or [Advanced].
<↑> <↓>	• Used to select items to be configured. • In cases where possible configuration values are listed on the screen, these keys are used to select the desired value.
<Enter>	• Brings up a list of possible configuration values for the current item or displays the selected menu. It is also used to select a setting value and close the menu. • Displays the sub-menu for items that are highlighted with a ▶ symbol. • Moves digits when entering the [System Time] and [System Date].
<Esc>	Returns to the previous screen when a sub-menu is displayed.
<F9>	Returns all BIOS setup utility setting values to their factory default settings.
<F10>	Saves any changes and restarts the computer.
<Tab>	Moves digits when entering the [System Time] and [System Date].

Restoring default factory setting values

Please follow these steps to restore your system to the default factory settings.

1 **Enter the BIOS setup utility.**

2 **Press the <F9> key.**
A confirmation screen should be displayed.
Press the <Esc> button to cancel and exit.

3 **Confirm that [Yes] or [Ok] is selected and then press <Enter>.**
This will load the default factory setting values.

4 **Press the <F10> key.**
A confirmation screen should be displayed.

Check

Select [Save Changes and Reset] or [Save Changes and Power Off] on the [Exit] menu bar to exit the BIOS setup utility. If you select [Save Changes and Power Off], your computer's power will turn off upon exiting the BIOS setup utility.

5 **Confirm that [Yes] or [Ok] is selected and then press <Enter>.**
These setting values are saved, the BIOS setup utility will finish, and your computer will restart.

Configuration is now complete.

ME BIOS Extension (VB model)

Before using the ME BIOS Extension

Before using the ME BIOS Extension, it is necessary to change the factory default password to a new password. Please use the following steps to change your password.

Check

- In the default factory settings, the password and the ID used for management tools is set to "admin".
- Until the default password is changed, you are not able to alter any settings other than the password itself.
- Keeping the default password may allow a third party to gain access to Intel® AMT. Even if you do not intend to use Intel® AMT, we strongly recommend changing the password from the default password.

1 **Turn your computer on and press <Ctrl> + <P> as soon as [Press <CTRL-P> to enter Intel(R) ME Setup] is displayed after the NEC logo.**
The ME BIOS Extension [MAIN] menu should come up.

2 **When [Intel(R) ME Password] is displayed, enter "admin" and press <Enter>.**

3 **When [Intel(R) ME New Password] comes up, enter your new password and press <Enter>.**
Please choose a strong password that satisfies the following criteria.
- A length of 8 to 32 characters.
- At least one lowercase and one uppercase letter.
- At least one number from 0 to 9.
- At least one special nonalphanumeric character such as !, @, #, etc.

Check

Double quotes ("), commas (,), periods (.), or colons (:) cannot be included in your password.

4 **When [Verify Password] comes up, re-enter the same password and press <Enter>.**

Entering the ME BIOS Extension

1 **Turn your computer on and press <Ctrl> + <P> as soon as [Press <CTRL-P> to enter Intel(R) ME Setup] is displayed after the NEC logo.**
The ME BIOS Extension [MAIN] menu should come up.

2 **When [Intel(R) ME Password] comes up, enter your ME BIOS Extension password and press <Enter>.**

Restoring default factory setting values

Please follow these steps to restore your ME BIOS Extension to the default factory settings.

Check

Be sure not to turn your computer off while following these steps.

1. **Enter the BIOS setup utility.**
2. **Under [Intel Feature Configuration] in the [Advanced] menu, set [Intel(R) ME BIOS Extension] to [Enabled].**
3. **Set [Unconfigure ME] to [Enabled].**
4. **Press the <F10> key.**
   A confirmation screen should be displayed.
5. **Confirm that [Yes] is selected and then press <Enter>.**
   These setting values are saved, the BIOS setup utility will finish, and your computer will restart.
6. **After your computer restarts, press <Y> when [Continue with unconfiguration (Y/N)] is displayed.**
   The screen will display [Intel(R) ME unconfiguration in progress] to indicate that the return to factory default setting values process has commenced.

   The computer will restart once this process is completed.

Configuration is now complete.

11 Applications

Battery Tool

By using the Battery tool, you can automatically perform battery refresh, performance diagnostics and battery refresh diagnostics.

Starting the Battery Tool

To start the Battery tool perform the following steps.

1. **Click [Start] and then [All Programs] → [Battery tool] → [Battery tool].**
2. **When a general explanation screen for battery refresh and performance diagnostics is shown, click [Next].**

Note

- By checking [Do not display this dialog box on startup.] and clicking [Next], the general explanation screen will not be shown at the next start up.
- The general explanation screen is also displayed by clicking [Read first] after Battery tool starts up.

For Battery tool and diagnostic results, start Battery tool, and click [Help] to read the [Help] information.

Performing Battery Refresh and Performance Diagnostics

For battery refresh and performance diagnostics, perform the following steps.

Check

When performing battery refresh and performance diagnostics, the battery and the AC adapter must be connected.

1. **Start Battery tool.**
2. **Click [Start].**
   A confirmation screen will be displayed.
3. **After confirming the contents, click [Yes].**
   Battery refresh will start.
   After battery refresh is complete, performance diagnostics will start.

Note On the Confirmation screen or the executing screen, checking [Enter sleep status automatically after completed.] will put the computer into sleep mode after battery refresh and performance diagnostics is completed.

Check

- To abort battery refresh, click [Stop], and follow the instructions on the screen. Also, if battery refresh is aborted, performance diagnostics will not be performed.
- If the battery state is "Deteriorative", the battery pack should be replaced.
- If the battery state is "Warning", replace the battery pack. Also, the battery pack cannot be charged or refreshed for safety reasons.

Uninstall

Go to the [Control Panel], click [Programs] → [Uninstall a program], then select [Battery tool] and click [Uninstall].
Follow the instructions on the screen for the procedure.

Reinstall

When reinstalling the uninstalled Battery tools, perform the following steps.

1. **Insert the Application Disc into the optical drive.**
2. **Click [Start] and then [All Programs] → [Accessories] → [Run].**
3. **Enter "D:\NECBATT\Setup.exe" in the [Open] dialog and then click [OK].**

Note If the optical drive is not specified as "D", change the "D" to the appropriate drive specification.

4. **When [Welcome to the Battery tool Setup Wizard] is displayed, click [Next].**
5. **If the [Battery tool Files in Use] screen is displayed, click [NEC Battery Refresh Utility-Scheduler (Process Id: XXXX)], and then click [Continue].**
6. **When the [Installation Complete] screen is displayed, click [Close].**
7. **When the restart prompt is displayed, remove the Application Disc from the optical drive, follow the instructions on the screen and restart the computer.**

Check

If the prompt is not displayed, remove the Application Disc from the optical drive and restart Windows.

Following the above steps will complete the reinstallation of Battery tools.

Deleting Data from the Hard Disk

About Deleting Data from the Hard Disk

Data can be deleted from the computer's hard disk.
Data written to the hard disk can be removed using the [Recycle Bin] or by formatting the computer to the original state.
Selecting this menu will remove hard disk data that cannot be removed by hard disk formatting of operation system standard, and the removed data will not be easily recovered with recovery tools.
Format the hard disk before transferring or disposing of the computer.

Check

Before deleting the hard disk data, return the BIOS Setup Utility setting to the factory setting values.

Data can be deleted from the computer in the following 3 ways.

- Simple mode (1 time erasure)
  Overwrites "00" data entirely from the hard disk.
- NSA-introduced mode (3 time erasure)
  Deletes data from the hard disk in a method compliant to the U.S. Department of Defense NSA Standard.
  The data is deleted effectively by writing random data 1, then random data 2, then "00" data 3 times in order and then deleting it 3 times. However, since the data is written 3 times, it takes 3 times longer than simple mode for deletion to be completed.
- DoD-introduced mode (3 time erasure + Verify)
  Deletes data from the hard disk in a method compliant to the U.S. Department of Defense Standard.
  "00", "FF", and random data is written in order, and verifies that the final random data is written correctly. Effective deletion is performed by deleting 3 times.

By using this method it is not guaranteed that the data cannot be completely recovered.

How to Delete Data from the Hard Disk

Check

Remove peripheral devices (excluding the optical drive), return to the state at the time of purchase.

1. **Turn on the power of the computer.**
2. **If the power lamp lights, quickly insert the Application Disc into the optical drive.**
3. **When [Press any key to boot from CD or DVD...] is displayed, press <Enter>.**
4. **When the Windows Reinstall screen is displayed, select [Erase data on the hard disk], and press <Enter>.**

5 **When [Data on the hard disk will be erased. Are you sure?] is displayed, select [Yes] and then press <Enter>.**

6 **Select the hard disk for data deletion and click [Next].**

7 **Select the deletion method that the data should be deleted and click [OK].**

8 **When [Starting to erase HDD data. Is it OK?], click [Yes].**

9 **When "Completed" is displayed, click [OK].**

10 **Remove the Application Disc from the optical drive and press <Enter>.**

Following the above steps will complete data deletion on the hard disk.

ECO Mode Utility (VX model)

3 power settings are available to fit your usage, you can switch to the optimal setting. Switching can be easily performed by pressing the ECO button or by setting a keyboard shortcut.

Switching Modes

The following 3 modes can be switched to using the ECO Mode function in the factory settings, "Standard" (ECO button lamp is light blue) is initially selected.

Mode	ECO button lamp is blue	Notification area icons and colors	Explanation
High Speed	Blue	(Blue)	Maintains the top CPU speed and sleep mode will not be entered after any time duration. Power plan is set to "High speed" and the LCD brightness is set to 5.
Standard	Light blue	(Light blue)	The computer speed is set to be overridden and after a specified time has elapsed without operation the computer will enter sleep mode. Power plan is set to "Standard" and the LCD brightness is set to 5.
ECO	Green	(Green)	The computer is set to primarily conserve power and will enter sleep mode earlier than the Standard setting. Power plan is set to "ECO" and the LCD brightness is set to 2.

Pressing the ECO button or the specified keyboard shortcut, the set mode will be displayed. Afterwards, when the ECO button or the specified keyboard shortcut is pressed it will switch through the modes. The current mode can be confirmed by ECO button lamp color or by the displayed icon shown by clicking on the ▲ in the notification area of the Task Bar.

Check

- The icons in the table are the factory settings. The displayed icon will change according to the mode selected.
- When the Windows logon screen is displayed, pressing the ECO button or the specified keyboard shortcut will not switch the mode.
- The ECO button lamp will not be lit when turning the power on, when in sleep, or when recovering from hibernation. It will light at the Windows logon screen.
- If the selected power plan mode provides priority to power saving, in applications where DVD video is replayed, etc., the replay quality may be lower than expected. In these situations, select a mode that provides priority to performance such as "High speed".

ECO Mode Function Settings

◆ **Changing Mode Settings**

When changing the settings for switching each mode using the ECO mode function, perform the following steps.

1 **Click [Start] and then [All Programs] → [ECO Mode Utility] → [ECO Mode Utility].**

2 **Perform the settings on the displayed screen.**

- Power plan
  Select that power plan for each mode.
- [Advanced Settings]
  The power plan for each mode can be customized.
  Also, the brightness automatic adjustment function can be set to ON/OFF and a brightness range can be set for automatic adjustment.
  In the [Advanced Settings] screen clicking [Restore defaults] will return the settings in each mode back to the factory settings.
- [Restore defaults]
  This will return the 3 modes and the power plan back to the factory settings.

3 **Click [OK].**

Check

- When removing a power plan that has been assigned to a particular ECO button mode, the unassigned mode will be marked as [No Setting].
- If any of the power plans used in the factory settings have been deleted, they will also be marked as [No Setting] after returning to factory settings using [Restore defaults].

◆ **Keyboard Shortcut Settings**

Setting a keyboard shortcut used to switch modes, separate from the ECO button, can be easily done.
To set a keyboard shortcut, perform the following steps.

1. **Click [Start] and then [All Programs] → [ECO Mode Utility] → [ECO Mode Utility].**
2. **Click [Keyboard shortcut]**
3. **Select the desired keyboard shortcut and click [OK].**

Note
- The keyboard shortcut can be set to the following key combinations.
  - <Alt> + <F1> through <F3>
  - <Alt> + <F5> through <F12>
  - <Ctrl> + <F1> through <F12>
- Clicking [Restore defaults] will return the keyboard shortcut settings to the factory defaults.

Uninstall

Go to the [Control Panel], click [Programs] – [Uninstall a program], then select [ECO Mode Utility] and click [Uninstall].
Follow the instructions on the screen for the procedure.

Reinstall

When reinstalling the uninstalled ECO Mode Utility, perform the following steps.

1. **Insert the Application Disc into the optical drive.**
2. **Click [Start] and then [All Programs] → [Accessories] → [Run].**
3. **Input [D:\NPSpeed\EcoMode_Setup.bat] in the [Open] dialog and then click [OK].**

Note If the optical drive is not specified as "D", change the "D" to the appropriate drive specification.

Follow the instructions on the screen for the procedure.

4. **When the [Installation Complete] screen is displayed, remove the Application Disc from the optical drive and then click [Close].**
5. **When the restart prompt is displayed, click [Yes].**
   Windows will automatically be restarted.

Following the above steps will complete the reinstallation of ECO Mode Utility.

DVD/CD Power Switch (VB model)

From the icons in the notification area of the Task Bar, the power for the built-in optical drive can be switched ON or OFF.

Check
This will only work on models with a built-in optical drive.

Uninstall

Go to the [Control Panel], click [Programs] – [Uninstall a program], then select [DVD/CD Power Switch] and click [Uninstall].
Follow the instructions on the screen for the procedure.

Reinstall

1. **Start Windows.**
2. **Insert the Application Disc into the optical drive.**
3. **Click [Start] and then [All Programs] → [Accessories] → [Run].**
4. **Input "D:\OddPowerSwitch\Setup_NOHK.cmd" in the [Open] dialog and then click [OK].**

Note If the optical drive is not specified as "D", change the "D" to the appropriate drive specification.

Follow the instructions on the screen for the procedure.

5. **When the [Installation Complete] screen is displayed, remove the Application Disc from the optical drive and then click [Close].**
6. **When the restart prompt is displayed, click [Yes].**
   Windows will automatically be restarted.

This is all you need to do to correctly install DVD/CD Power Switch.

HDD Anti-Shock Tool (VB model)

Using the HDD anti-shock tool will reduce the risk of damage to the hard disk by returning the head of the hard disk to a safe position when the detection sensor detects acceleration or vibrations from the computer falling, or other similar movement.
Also, using the HDD anti-shock tool setting utility, the hard disk protection function of the HDD anti-shock tool can be temporarily disabled and the sensitivity of the detection sensor can be adjusted.

● **Function Details, Operation Method, and Limitations**
HDD anti-shock tool help. (Click [Start] and then [All Programs] → [HDD anti-shock tool] → [Help].)

◆ **Boot Method**

1 Click [Start] and then [All Programs] → [HDD anti-shock tool] → [HDD anti-shock tool].
The [HDD anti-shock tool setting utility] screen will be displayed.

Precautions

- HDD anti-shock tool will reduce the risk of damage to the hard disk when the computer detects that it has been tilted, dropped, or otherwise moved abruptly by returning the head of the hard disk. However, there is no guarantee that the hard disk will be completely protected of failure or corruption. It is recommended that important data be backed up frequently.
- When an impact is detected, the hard disk head will be returned and the computer will not perform operations. Wait a few seconds for the head to return back into position.
- When installing or uninstalling the HDD anti-shock tool, set the [Region and Language] to [English (United States)].
  Once installation or uninstallation has been completed, you may freely revert to your own settings.

Check

To confirm the [Region and Language] setting, perform the following steps.

1. In the [Control Panel] and click [Clock, Language, and Region] and then [Region and Language].
2. Click on the [Administrative] tab.
   - If the [Current language for non-Unicode programs] is set to [English (United States)], click [OK], and then close the window.
     This completes the procedure for checking or changing the [Region and Language] settings.
3. Click [Change system locale], and under [Current system locale] select [English (United States)], and then click [OK].
4. Restart Windows.

This completes the procedure for checking or changing the [Region and Language] settings.

Install

1 Start Windows.
2 Insert the Application Disc into the optical drive.
3 Click [Start] and then [All Programs] → [Accessories] → [Run].
4 Input "D:\HDSaver\setup.exe" in the [Open] dialog and then click [OK].

Note If the optical drive is not specified as "D", change the "D" to the appropriate drive specification.

Follow the instructions on the screen for the procedure.

5 When [InstallShield Wizard Completed] is displayed, click [Finish].
6 Click [No] on the [HDD anti-shock tool Installer Information] screen.
7 Remove the Application Disc from the optical drive and restart Windows.

Check

Before using the HDD anti-shock tool for the first time, the detection sensor must be initialized. Before the initialization of the detection sensor is complete, the hard disk protection function will not be enabled.
To initialize the detection sensor refer to the HDD anti-shock tool help.

Following the above steps will complete the installation of HDD anti-shock tool.

Uninstall

Go to the [Control Panel], click [Programs] – [Uninstall a program], then select [HDD anti-shock tool] and click [Uninstall].
Follow the instructions on the screen for the procedure.

12 Recovery

Recovery Basics

Here we will explain the basics before recovery. Please read this before performing recovery.

Required Materials

When recovering from a DVD, the following materials are required. Prepare all of the materials before starting the process.

- Application Disc
- Recovery Disc

Backup Data from the Hard Disk

Before recovery, if there is data that you would like to maintain, make a backup of the data and then perform recovery.

Check

For multi-user computers, each user should logon and make personal backups.

Maintain System Settings

When the recovery has completed, all BIOS Setup Utility settings, network settings, etc. return to the factory settings. If you would like to use the same settings after recovery, maintain the current settings by writing down the information, etc.

Returning the BIOS Utility Settings to the Original Values

Before recovery, return the BIOS Setup Utility setting values to the original factory setting values.

Precautions during Recovery

Follow the following precautions during recovery.

Follow the steps in the manual and on the recovery screen

During recovery, be sure to follow the steps in this manual and on the recovery screen. Missing a step, pressing a key other than the indicated key, or changing the procedure may result in improper recovery.

Check

One of the [advanced recovery method] under the [Recovery] in the [Control Panel], [Reinstall Windows] can not be used.

Connect the adapter

Recovery cannot be performed via battery power. Be sure to connect the AC adapter.

Turn OFF the wireless LAN function

Confirm that the wireless LAN function is OFF. If the wireless LAN function is ON, turn it OFF before recovery.

Disconnect peripheral devices

Disconnect peripheral devices to return to the state at time of purchase (excluding the optical drive used for recovery).

Check

If the computer's LAN cable is connected, disconnect it before recovery.

Do not interrupt recovery

Do not interrupt the recovery process once it has started. If you interrupt, the recovery may not be performed correctly, so you have to start over from the beginning.

When recovery cannot be performed

If "The computer can not be restored". is displayed, it is possible that the model information is not written correctly. Please contact our repair facilities.

Do not leave the computer alone during recovery

Do not leave the computer unattended until the recovery has completed including passing all the screens which require your key operations, and power OFF.

Computer recovery

Computer recovery is performed.

Check

Be sure to start operations with the computer's power turned OFF.

Hard Disk Recovery

1. **Turn ON the power of the computer.**
2. **When the NEC logo screen is displayed, repeatedly press <F11> until the NEC logo screen disappears and "Windows is loading files..." is displayed.**

Check

If the normal Windows Desktop screen is shown instead of the recovery screen, turn the power OFF, start from step 1 and press <F11> in a different timing on step 2.

3. **When [Windows 7 (32 bit) Recovery] is displayed, read the precautions and then press <Enter>.**
4. **When the [Windows Recovery] screen is displayed, select [Start to restore your computer], and press <Enter>.**

Follow the steps on the screen for the procedure.
Next, continue to "Windows Setup" (on the right).

DVD Recovery

1. **Turn ON the power of the computer.**
2. **If the power lamp lights, quickly insert the Application Disc into the optical drive.**
3. **When [Press any key to boot from CD or DVD...] is displayed, press <Enter>.**
4. **When the [Windows Recovery] screen is displayed, select [Start to restore your computer with Recovery Disc], and press <Enter>.**
5. **When [Windows 7 (32 bit) Recovery] is displayed, read the precautions and then press <Enter>.**

Follow the steps on the screen for the procedure.
Next, continue to "Windows Setup" (on the right).

Windows Setup

Perform Windows setup.

Windows Setup

Read "Windows Setup" (p.4) and perform Windows Setup.

Check

When Windows setup has completed, turn the power OFF and then do settings to your needs.

Next, continue to "Resetting to Initial Setup".

Do again the settings which you did after your purchase

The settings which you did after purchasing your computer is lost once recovery has started. Do the settings again.
If you want to use some peripherals, connect them and do the settings again. Do also network settings again.

Next, continue to "After Recovery".

After Recovery

The applications which you installed from Application Disc or by any other way and the data you made can not be recovered. Reinstall these applications.

That is all for Windows 7 recovery.

13 Appendix

Specifications

VX Model

Model name		VC25M/X-D VG25M/X-D
CPU*20		Intel® Core™ i5-2520M processor*2*14
Maximum memory (RAM)		8 GB [SO-DIMM (2 slots)]*28
Power		Lithium ion battery (M)(DC: 11.1 V, Typ. 1600 mAh*49)(Battery pack included) and 220 VAC, 50 Hz (AC adapter), Lithium ion battery (L)(DC: 11.1 V, Typ. 4000 mAh*49)(Battery pack included) and AC Adapter to adapt itself to your region's specifications [AC Adapter itself is safely rated for input current of up to 240 VAC. However the included power cord is adapted to suit your region's specifications. For use outside your region, another power cord will be required.]
Power consumption (Maximum configuration)	Windows® 7 Professional 32 bit version	Approx. 90 W
External Dimensions (excluding protrusions)*6		378(W) x 266(D) x 40.5(H) mm
Weight (including battery)*8		Approx. 2.7 kg

For comments, please refer to the right.

VB Model

Model name		VC17H/BB-D VG17H/BB-D
CPU*20		Intel® Core™ i7-2637M processor*2*14
Maximum memory (RAM)		8 GB [SO-DIMM (2 slots)]*28
Power		Battery pack (M)(Lithium ion)(10.8 VDC, Typ. 3350 mAh*49)(Battery pack included), Battery pack (L)(Lithium ion)(10.8 VDC, Typ. 6700 mAh*49)(Battery pack included) and AC Adapter to adapt itself to your region's specifications [AC Adapter itself is safely rated for input current of up to 240 VAC. However the included power cord is adapted to suit your region's specifications. For use outside your region, another power cord will be required.]
Power consumption (Maximum configuration)	Windows® 7 Professional 32 bit version	Approx. 65 W
External Dimensions (excluding protrusions)*6		292(W) x 223(D) x 29.8(H) mm
Weight (including battery)*8		Approx. 1.17 kg

For comments, please refer to the right.

Comments

* 2 : Supports Hyper-Threading technology.
* 6 : Protrusions such as rubber feet are excluded.
* 8 : Does not include a PC card slot. The VB model does not come equipped with and SD memory card or DVD Super Multi drives.
*14 : Equipped with an enhanced version of Intel SpeedStep® Technology.
*20 : Depending on the user environment and load the CPU operating speed may vary.
*28 : The maximum RAM is 8 GB. However, the 32 bit version of the OS cannot utilize the entire capacity. Even with 4 GB or more of RAM, the usable capacity is approx. 3 GB. Furthermore, depending on the configuration the usable RAM volume may vary.
*49 : Shows the normal capacity (actual battery pack capacity).

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User's Guide
VX Model
VB Model

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